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DATE MAILED: 09/17/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/652,968	08/31/2000	Vishnu K. Agarwal	98-0616.12 4756		
75	590 09/17/2002				
EDWARDS W. BULCHIS, ESQ. DORSEY AND WHITNEY LLP U.S. BANK CENTRE,			EXAM	EXAMINER DIAZ, JOSE R	
			DIAZ, J		
1420 FIFTH A' SEATTLE, WA	VENUE SUITE 3400		ART UNIT PAPER NUMBER	PAPER NUMBER	
SERTIEL, WI	. 70101		2815		

Please find below and/or attached an Office communication concerning this application or proceeding.

N.		Application No.	Applicant(s)	7		
Office Action Summary		09/652,968	AGARWAL, VISHNU K.			
		Examiner	Art Unit			
		José R Díaz	2815			
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the	correspondence address			
THE M - Exten after to - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute sply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	imely filed ays will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 11.	<u>lune 2002</u> .				
2a)⊠	•	is action is non-final.				
3)						
Dispositi	on of Claims	Ex parto quayro, 1000 0.5. 11,	100 0.0. 2.0.			
4)⊠	Claim(s) 43,44,76 and 78-80 is/are pending ir	the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>43,44,76 and 78-80</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/o on Papers	r election requirement.				
9)[]	The specification is objected to by the Examine	er.				
10) 🗆 -	The drawing(s) filed on is/are: a)☐ acce	pted or b)□ objected to by the Ex	aminer.			
į	Applicant may not request that any objection to th					
11) 🗆 .	The proposed drawing correction filed on		roved by the Examiner.			
	If approved, corrected drawings are required in re	ply to this Office action.				
12) 🗌	The oath or declaration is objected to by the Ex	kaminer.				
-	ınder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119	(a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority document					
	2. Certified copies of the priority document	ts have been received in Applica	ation No			
* 5	3. Copies of the certified copies of the price application from the International Buse the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).				
14) 🗆 A	Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119	e) (to a provisional application)).		
а) The translation of the foreign language processes The Community of the foreign language processes the community of the com	ovisional application has been re	eceived.			
Attachmen	t(s)					
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>(</u>	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			
U.S. Patent and T	rademark Office					

Art Unit: 2815

DETAILED ACTION

Claim Rej ctions - 35 USC § 102

➤ The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

➤ Claims 43-44, 76 and 78-80 are rejected under 35 U.S.C. 102(b) as being anticipated by George et al. (US Patent No. 5,332,444).

Regarding claims 43, 76 and 78, George et al. teach a method comprising: layering a first conductive material (see col. 7, lines 20-26), introducing a material selected form the group of diborane, phosphine, a carbon-silicon compound, HCL, and boron thrichloride (see col. 4, lines 12-25); applying electromagnetic energy (see col. 4, lines 34-47 and col. 5, lines 34-32), layering a second conductive material (see col. 7, lines 20-26).

Art Unit: 2815

Regarding claim 44, George et al. teach directing ultraviolet light toward to the material introduced to the first conductive material (see col. 4, lines 34-47 and col. 5, lines 34-32).

Regarding claims 79 and 80, George et al. that the carbon-silicon compound comprises HMDS (see col. 4, lines 12-25).

> Claims 43-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Agarwal et al. (US Patent No. 6,201,276 B1).

Regarding claims 43, George et al. teach a method comprising: layering a first conductive material (14), introducing a material selected form the group of diborane, phosphine, a carbon-silicon compound, HCL, and boron thrichloride (see col. 4, lines 49-62 and col. 5, lines 50-67); applying electromagnetic energy (see col. 5, lines 60-67), layering a second conductive material (19) (see figures 2a-2d).

Regarding claim 44, George et al. teach directing ultraviolet light toward to the material introduced to the first conductive material (see col. 5, lines 50-67).

Response to Arguments

> Applicant's arguments with respect to claims 43-44, 76 and 78-80 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

➤ Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 09/652,968

Art Unit: 2815

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R Díaz whose telephone number is (703) 308-6078. The examiner can normally be reached on 9:00-5:00 Monday, Tuesday, Thursday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 746-3891 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Application/Control Number: 09/652,968

Art Unit: 2815

JRD

September 12, 2002

EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800